

**Common Sense Initiative, Automobile Manufacturing Sector**

***U.S. Automobile Assembly Plants and Their Communities:  
Environmental Economic, and Demographic Profile***

**Part III: Automobile/Light Duty Truck Assembly  
Plant-Community Profiles**

**10. Subaru-Isuzu  
Lafayette, IN**

**December 1997**

## **Contents and Guidelines for Use**

**Users of this profile should carefully review the description of methods, data limitations, and guidelines for use and interpretation of the data presented in Part I of the report.**

### **Contents:**

Plant Locations (National and Michigan maps)  
Plant Location, Database Identification Numbers, 1994 Production and Employment  
1991 and 1993 RCRA Biennial Report Summary  
1991-1994 TRI Releases and Transfers Summary  
1994 TRI Releases and Transfers by Chemical  
1991-1994 Volatile Organic Compound and Nitrogen Oxide Emissions  
1994 Summary of TRI Chemical Releases and Transfers from Sources within 3 Miles of Assembly Plant  
Air Quality Attainment Status for Criteria Pollutants (as of 1994)  
Community Demographic and Economic Characteristics  
Facility Location (map)  
Area Wide 1994 TRI Emission Profile (map)  
1994 TRI Releases and Transfers from Sources within 3 Miles of Assembly Plant, by Chemical  
Demographic Characteristics (maps)

### **General Guidelines for Use**

Efforts have been made to ensure that the data presented here are accurate. The Project Team could not independently verify data accuracy in all cases, however, and some errors may remain. The following is a partial list of factors that should be considered in using these profiles:

1. Current releases presented in this report represent only some of the contamination sources in a given area. Data on historical releases (prior to 1991) were not included, and releases from non-assembly plant emission sources were identified only through the Toxics Release Inventory (TRI). TRI data do not cover all sources of releases. Considering only TRI data for a given community may mis-state the relative contribution of plants and their neighboring TRI facilities to an area's total releases.
2. Care must be taken to distinguish true changes over time in environmental releases from apparent changes, due, for example, to changes in the scope of reporting requirements.
3. TRI data are often based on engineering estimates and are reported on an annual basis. Data on releases over shorter time frames are not available.
4. TRI, the Biennial Report and other databases do not include all substances and environmental releases of concern.

### **Notes on Comparisons Across Facilities**

1. The following factors can affect an assembly plant's environmental profile, among other things: the number of vehicles produced, plant age, process equipment age, and vehicle size and configuration.
2. Some plants are highly-integrated, performing some parts and all assembly steps in-house. Others obtain parts from other manufacturing facilities, or share assembly operations with another plant.
3. States differ in how they define hazardous waste and how they treat recycled wastes and small quantity generators. Therefore, data on quantities of BRS wastes generated may not be comparable for plants located in different states.
4. Area-wide averages for economic and demographic characteristics may be better or worse measures of the plant's immediate community, depending on the specific location of a plant within the reporting area.

**Plant-Community Profile:**  
**Suburau-Isuzu**  
**Lafayette IN**

12/2/97

<b>LOCATION</b>	Address	5500 State Rd. 38 East, Lafayette IN 47905		<b>DESCRIPTION</b>	Plant opened as joint venture of Subaru and Isuzu in 1989; major expansion in 1992 Produced Honda Passport, Rodeo, Subaru Legacy and Isuzu pickup in 1994.		
	Lat/Long:	latitude (degrees N)	40 22' 53"				
		longitude (degrees W)	86 47' 30"				
	County:	Tippecanoe	MSA:	Lafayette IN			
	Other counties within 3 miles of plant:		none		<b>ID NUMBERS</b>	RCRA ID	IND 984866491
						AIRS ID	AFS1815700050
<b>OPERATIONS</b>		<b>Production</b>	<b>Employment</b>			NPDES ID	IN0053996
						TRI	47903SBRSZ5500S
	Calendar Year: 1991	116,297					
	1992	124,020					
	1993	124,004					
	1994	154,801	1,970				

**PLANT ENVIRONMENTAL PROFILE**

**RCRA BIENNIAL REPORT**

<i>Waste Code(s)</i>	<i>Wastewater?</i>	<i>Physical Form</i>	<i>Source</i>	<i>Mgd. On/Off-Site</i>	<i>Management Method</i>	<i>Quantity Generated (tons)</i>	<i>Quantity Shipped (tons)</i>	<i>Quantity Mgd. On-Site (tons)</i>
<i>1991</i>								
D001 (ignitable)	N	B203 org. liquids	A59 1x/intermittent	Off	M061 fuel blending	0.2	0.2	0.0
D001 (ignitable)	N	B210 org. liquids	A09 clean out equip	Off	M041 incineration	14.5	14.5	0.0
D001 (ignitable)	N	B210 org. liquids	A09 clean out equip	Off	M041 incineration	38.8	38.8	0.0
D001 (ignitable)	N	B211 org. liquids	A07 vapor degreas	Off	M021 solvents recov.	2.1	2.1	0.0
D001 (ignitable)	N	B409 org. solids	A08 physical scraping	Off	M043 incineration	15.5	15.5	0.0
D001 (ignitable)	N	B604 org. sludges	A21 painting	Off	M042 incineration	51.9	51.9	0.0
D001(ignit) F003 (solvents)	N	B211 org. liquids	A09 clean out equip	Off	M061 fuel blending	727.4	727.4	0.0
D001(ignit) F003 (solvents)	N	B211 org. liquids	A21 painting	Off	M061 fuel blending	45.1	45.1	0.0
D001, D009	N	B001 lab packs	A57 1x/intermittent	Off	M041 incineration	2.0	2.0	0.0
D002 (corrosive)	N	B519 inorg. sludges	A24 phosphating	Off	M041 incineration	20.4	20.4	0.0
D006, D007, D008	N	B106 inorg. liquids	A03 caustic cleaning	Off	M021 solvents recov.	0.0	0.0	0.0
D008 (lead)	N	B604 org. sludges	A21 painting	Off	M042 incineration	16.6	16.6	0.0
D018 (benzene)	N	B211 org. liquids	A59 1x/intermittent	Off	M021 solvents recov.	2.0	2.0	0.0
F001 (halog. solvents)	N	B202 org. liquids	A07 vapor degreas	Off	M021 solvents recov.	7.1	7.1	0.0
<b>TOTAL - 1991</b>						<b>943.5</b>	<b>943.5</b>	<b>0.0</b>

**PLANT ENVIRONMENTAL PROFILE (continued)**

**RCRA BIENNIAL REPORT (continued)**

**Plant-Community Profile:  
Suburau-Isuzu  
Lafayette IN**

12/2/97

<i>Waste Code(s)</i>	<i>Wastewater?</i>	<i>Physical Form</i>	<i>Source</i>	<i>Mgd. On/Off-Site</i>	<i>Management Method</i>	<i>Quantity Generated (tons)</i>	<i>Quantity Shipped (tons)</i>	<i>Quantity Mgd. On-Site (tons)</i>	
<i>1993</i>									
D001 (ignitable)	N	B210 org. liquid	A09 clean out equip	Off	M043 incineration	19.2	19.2	0.0	
D001 (ignitable)	N	B211org. liquid	A05 dip rinsing	Off	M021 solvents recov.	1.2	1.2	0.0	
D001 (ignitable)	N	B211org. liquid	A19 other clean/degr.	Off	M042 incineration	7.6	7.6	0.0	
D001 (ignitable)	N	B604 org. sludges	A21 painting	Off	M042 incineration	6.6	6.6	0.0	
D001(ignitable) D018 (benzene)	N	B203 org. liquid	A61 remediation	Off	M051 energy recov.	0.1	0.1	0.0	
D001(ignitable) D018 (benzene)	N	B409 org. solids	A53 1x/intermittent	Off	M043 incineration	0.1	0.1	0.0	
D001(ignitable) F003 (solvents)	N	B211org. liquid	A73 solvents recovery	Off	M041 incineration	4.2	4.2	0.0	
D001(ignitable) F003 (solvents)	N	B211org. liquid	A73 solvents recovery	Off	M061 fuel blending	117.0	117.0	0.0	
D001(ignitable) F003 (solvents)	N	B409 org. solids	A08 physical scraping	Off	M043 incineration	9.5	9.5	0.0	
D001, D009, D006	N	B003 lab packs	A57 1x/intermittent	Off	M111 stabilization	0.7	0.7	0.0	
D001, D035, F003	N	B211org. liquid	A09 clean out equip	Off	M022 solvents recov.	678.5	678.5	0.0	
D001, U154	N	B203 org. liquid	A58 1x/intermittent	Off	M041 incineration	1.2	1.2	0.0	
D002 (corrosive)	N	B319 inorg. solids	A53 1x/intermittent	Off	M043 incineration	0.1	0.1	0.0	
D002 (corrosive)	N	B519 inorg sludges	A24 phosphating	Off	M042 incineration	17.0	17.0	0.0	
D008 (lead)	N	B406 org. solids	A21 painting	Off	M043 incineration	22.1	22.1	0.0	
D008 (lead)	N	B604 org. sludges	A21 painting	Off	M042 incineration	4.4	4.4	0.0	
F001 (halog. solvents)	N	B202 org. liquid	A07 vapor degreas	Off	M022 solvents recov.	4.0	4.0	0.0	
F001 (halog. solvents)	N	B202 org. liquid	A07 vapor degreas	Off	M041 incineration	0.5	0.5	0.0	
U122	N	B409 org. solids	A53 1x/intermittent	Off	M043 incineration	0.9	0.9	0.0	
<i>TOTAL - 1993</i>						<i>894.6</i>	<i>894.6</i>	<i>0.0</i>	
<b>TOXICS RELEASE INVENTORY</b>									
	<i>Air-Fugitive Emissions</i>	<i>Air-Stack Emissions</i>	<i>Total Releases</i>	<i>Discharge to POTW</i>	<i>Off-Site Energy Recovery</i>	<i>Off-Site Recycling</i>	<i>Off-Site Treatment</i>	<i>Off-Site Disposal</i>	<i>Total Transfers</i>
<i>Total lbs of TRI chemicals:</i>									
1991	28,925	610,440	639,365	5	1,386,400	12,800	5,450	0	1,404,655
1992	9,025	736,765	745,790	40	390,100	9,500	6,600	0	406,240
1993	10,215	622,505	632,720	1,040	138,780	870,005	27,840	5	1,037,670
1994	10,395	981,645	992,040	1,040	136,850	684,000	71,600	0	893,490
<i>Lbs. per vehicle produced:</i>									
1991	0.25	5.25	5.50	0.00	11.92	0.11	0.05	0.00	12.08
1992	0.07	5.94	6.01	0.00	3.15	0.08	0.05	0.00	3.28
1993	0.08	5.02	5.10	0.01	1.12	7.02	0.22	0.00	8.37
1994	0.07	6.34	6.41	0.01	0.88	4.42	0.46	0.00	5.77

**Plant-Community Profile:  
Suburau-Isuzu  
Lafayette IN**

12/2/97

**PLANT ENVIRONMENTAL PROFILE (continued)**

**1994 TRI Emissions/Releases by Chemical (lbs.)**

<i>Chemical Name</i>	<i>Air-Fugitive Emissions</i>	<i>Air-Stack Emissions</i>	<i>Total Releases</i>	<i>Discharge to POTW</i>	<i>Off-Site Energy Recovery</i>	<i>Off-Site Recycling</i>	<i>Off-Site Treatment</i>	<i>Off-Site Disposal</i>	<i>Total Transfers</i>
METHANOL	750	69,000	69,750	5	11,000	5,800	1,800	0	18,605
N-BUTYL ALCOHOL	1,400	140,000	141,400	5	14,000	35,000	1,000	0	50,005
BENZENE	5	250	255	0	250	0	250	0	500
1,1,1-TRICHLOROETHANE	250	5,500	5,750	0	0	19,000	0	0	19,000
METHYL ETHYL KETONE	250	2,000	2,250	5	5,400	4,700	9,600	0	19,705
1,2,4-TRIMETHYLBENZENE	250	25,000	25,250	0	14,000	3,700	250	0	17,950
ETHYLBENZENE	250	11,000	11,250	0	8,100	0	250	0	8,350
STYRENE	5	250	255	0	250	0	250	0	500
ETHYLENE GLYCOL	0	0	0	5	20,000	0	1,400	0	21,405
METHYL ISOBUTYL KETONE	1,500	150,000	151,500	5	3,400	150,000	550	0	153,955
TOLUENE	750	89,000	89,750	0	12,000	5,800	1,300	0	19,100
CYCLOHEXANE	5	250	255	0	250	0	250	0	500
XYLENE (MIXED ISOMERS)	4,200	420,000	424,200	5	40,000	440,000	4,500	0	484,505
METHYL TERT-BUTYL ETHER	5	250	255	0	750	0	250	0	1,000
HYDROCHLORIC ACID	5	0	5	0	0	0	10,750	0	10,750
PHOSPHORIC ACID	5	0	5	0	0	0	17,000	0	17,000
SULFURIC ACID	5	0	5	0	0	0	250	0	250
BARIUM COMPOUNDS	0	1,500	1,500	250	250	0	250	0	750
GLYCOL ETHERS	750	67,000	67,750	5	7,200	20,000	750	0	27,955
LEAD COMPOUNDS	5	0	5	250	0	0	1,500	0	1,750
MANGANESE COMPOUNDS	5	390	395	250	0	0	1,700	0	1,950
NICKEL COMPOUNDS	0	5	5	250	0	0	1,950	0	2,200
ZINC COMPOUNDS	0	250	250	5	0	0	15,800	0	15,805
<b>TOTAL</b>	<b>10,395</b>	<b>981,645</b>	<b>992,040</b>	<b>1,040</b>	<b>136,850</b>	<b>684,000</b>	<b>71,600</b>	<b>0</b>	<b>893,490</b>

**VOC/NOx Emissions:  
(lbs/year)**

	<b>VOCs</b>	<b>NOx*</b>
1990	NA	NA
1991	NA	NA
1992	NA	NA
1993	2,803,200	100,600
1994	2,056,511	112,840
		*1994 - NO2

Plant-Community Profile:  
Suburau-Isuzu  
Lafayette IN

12/2/97

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COMMUNITY ENVIRONMENTAL PROFILE

TRI Chemical Releases & Transfers from Sources Within 3 Miles of Auto/LDT Plant (lbs.)

<i>Facility (w. map #)</i>	<i>Air-Fugitive Emissions</i>	<i>Air-Stack Emissions</i>	<i>Total Releases</i>	<i>Discharge to POTW</i>	<i>Off-Site Transfers</i>	<i>Total Transfers</i>
2 A. E. STALEY MFG. CO. LAFAYETTE	15	1,041	1,056	0	0	0
<b>Total</b>	<b>15</b>	<b>1,041</b>	<b>1,056</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Air Quality Attainment Status  
(as of 1994)\***

ozone - attainment or unclassifiable  
carbon monoxide - attainment or unclassifiable  
particulates - unclassifiable  
lead - unclassifiable  
NO2 - cannot be classified or better than national standards  
SO2 - attainment

\* no changes in designations occurred between 1994 and 1996

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**Plant-Community Profile:  
Subaru-Isuzu  
Lafayette IN**

12/19/97

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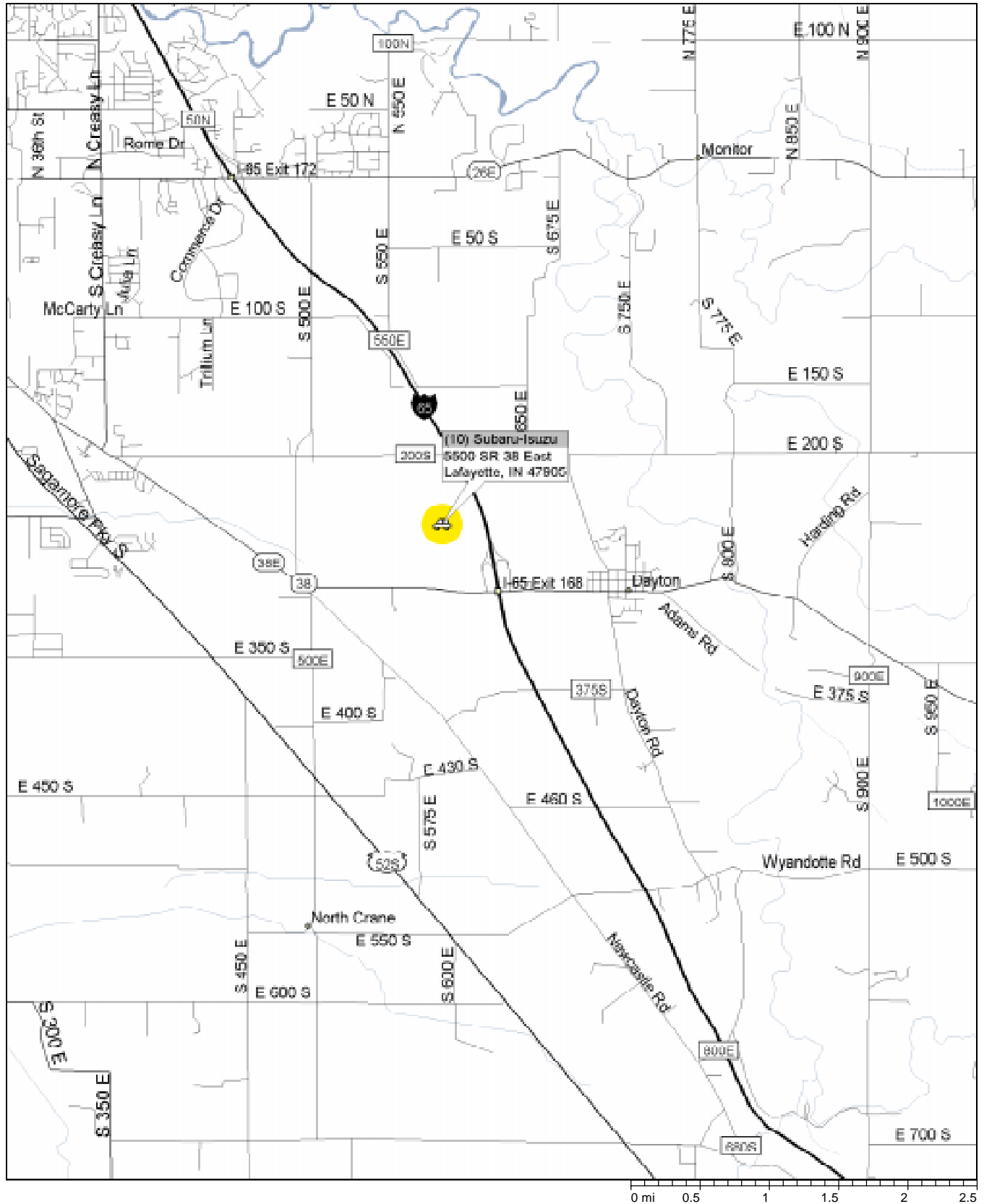
**COMMUNITY DEMOGRAPHIC AND ECONOMIC CHARACTERISTICS**

	<i><b>Census Block</b></i>	<i><b>0-1 Mile</b></i>	<i><b>0-3 Miles</b></i>	<i><b>1-3 Miles</b></i>	<i><b>3-5 Miles</b></i>	<i><b>County</b></i>	<i><b>State</b></i>	<i><b>U.S.</b></i>
Total Population (1994)	NA	NA	NA	NA	NA	134,428	5,752,151	260,340,990
Total Population (1990)	1,271	462	5,337	4,622	30,013	130,598	5,544,159	248,709,873
% Change 1990-1994	NA	NA	NA	NA	NA	3	4	5
Total Area (sq. mi.) (1990)	8.4	3.1	28.2	25.1	50.2	499.8	35,870.1	3,536,278.1
Population/sq. mi. (land area) (1990)	151	149	189	184	598	261	155	70
Median Household Income (1994)						NA	27,858	32,264
Median Household Income (1989)						27,630	28,797	30,056
% Change 1979-1989 (constant \$)						<0.5	-2	7
% Change 1989-1994 (constant \$)						NA	-3	7
Per Capita Personal Income (1993)						17,936	19,213	20,800
Per Capita Personal Income (1989)						14,472	15,972	17,690
% Change 1989-1993 (current \$)						24	20	18
Minority Percentage (1990)	3	2	6	6	2	6	9	20
Pct. of Households Below Poverty Level (1989)	10	8	20	22	10	33	17	20
Pct. Not Completing High School (1990)	16	14	16	16	12	11	24	25
Total Employment (1994) (civilian nonfarm)						71,755	3,057,000	131,056,000
Unemployment Rate (1994)						4	4	6
Manufacturing Employment (1993)						15,051	636,495	18,183,381
Mfgr. as % Total Employment (1993)						3	28	19
Manufacturing Employment (1992)						NA	54,000	18,253,000
Production Workers (1992)						NA	39,000	11,654,000
% Change in Mfgr. Employment 1987-1992						NA	3	-4
Assembly Plant as % Total Mfgr. Workers						13		

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Data sources used were not always complete or current.  
Attempts have been made to verify data, but errors may still exist.

## Lafayette, IN, Subaru-Isuzu Plant



Microsoft Expedia

# Streets98



SUBARU-ISUZU AUTOMOTIVE INC  
5500 SR 38 E  
LAFAYETTE IN  
Tri Number: 47903SBR5Z5500S

Map #	SIC	Name	Address	City	State
0	3711	SUBARU-ISUZU AUTOMOTIVE INC.	5500 STATE RD. 38 E. P.O. BOX 5689	LAFAYETTE	IN
2	2046	A. E. STALEY MFG. CO. LAFAYETTE SOUTH	3300 U.S. 52 S.	LAFAYETTE	IN

# AREA WIDE 1994 TRI EMISSION PROFILE

SUBARU-ISUZU AUTOMOTIVE INC  
TIPPECANOE COUNTY, Indiana

Latitude: 40 22 53  
Longitude: 86 47 30

Map Key:  
Auto  
Plant  
Truck



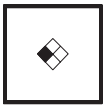
Air  
Release



Land  
Release

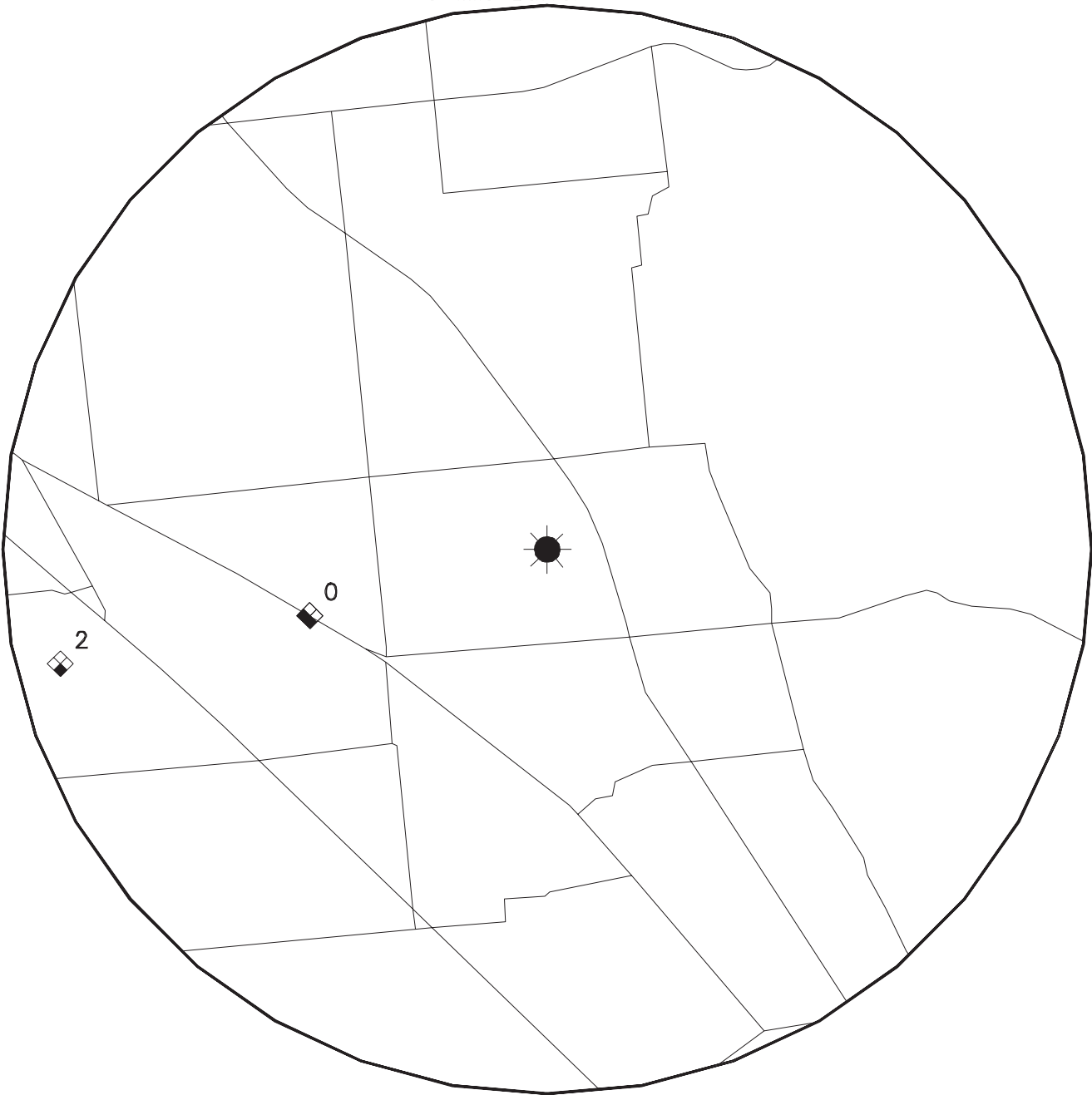


Water  
Release



Transfer  
location  
to offsite

3 Mile Buffer



Number without a Symbol denotes no reported emissions over 0.5 pounds per year

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF  
SUBARU-ISUZU AUTOMOTIVE INC TRI NO: 47903SBR5Z5500S

Chemical Name	Air Fugitive (Non-Point Source) Emissions	Air Stack (Point Source) Emissions	Discharge to Surface Water	On-Site Land Disposal	TOTAL RELEASES	Discharge to POTW	Transfer	TOTAL TRANSFERS
SUBARU-ISUZU AUTOMOTIVE INC.			SIC DESCRIPTION: MOTOR VEHICLES & CAR BODIES		MAP LOCATION NO:			
5500 STATE RD. 38 E. P.O. BOX 5689 LAFAYETTE IN 47905			SIC CODE: 3711					
METHANOL	750	69,000	0	0	69,750	5	18,600	18,605
N-BUTYL ALCOHOL	1,400	140,000	0	0	141,400	5	50,000	50,005
BENZENE	5	250	0	0	255	0	500	500
1,1,1-TRICHLOROETHANE	250	5,500	0	0	5,750	0	19,000	19,000
METHYL ETHYL KETONE	250	2,000	0	0	2,250	5	19,700	19,705
1,2,4-TRIMETHYLBENZENE	250	25,000	0	0	25,250	0	17,950	17,950
ETHYLBENZENE	250	11,000	0	0	11,250	0	8,350	8,350
STYRENE	5	250	0	0	255	0	500	500
ETHYLENE GLYCOL	0	0	0	0	0	5	21,400	21,405
METHYL ISOBUTYL KETONE	1,500	150,000	0	0	151,500	5	153,950	153,955
TOLUENE	750	89,000	0	0	89,750	0	19,100	19,100
CYCLOHEXANE	5	250	0	0	255	0	500	500
XYLENE (MIXED ISOMERS)	4,200	420,000	0	0	424,200	5	484,500	484,505
METHYL TERT-BUTYL ETHER	5	250	0	0	255	0	1,000	1,000
HYDROCHLORIC ACID	5	0	0	0	5	0	10,750	10,750
PHOSPHORIC ACID	5	0	0	0	5	0	17,000	17,000
SULFURIC ACID	5	0	0	0	5	0	250	250
BARIUM COMPOUNDS	0	1,500	0	0	1,500	250	500	750
GLYCOL ETHERS	750	67,000	0	0	67,750	5	27,950	27,955
LEAD COMPOUNDS	5	0	0	0	5	250	1,500	1,750
MANGANESE COMPOUNDS	5	390	0	0	395	250	1,700	1,950
NICKEL COMPOUNDS	0	5	0	0	5	250	1,950	2,200
ZINC COMPOUNDS	0	250	0	0	250	5	15,800	15,805
SUBTOTALS	10,395	981,645	0	0	992,040	1,040	892,450	893,490

A. E. STALEY MFG. CO. LAFAYETTE SOUTH

SIC DESCRIPTION: WET CORN MILLING  
SIC CODE: 2046

MAP LOCATION NO: 2

3300 U.S. 52 S.  
LAFAYETTE IN 47905

HYDROCHLORIC ACID	10	1,041	0	0	1,051	0	0	0
CHLORINE	5	0	0	0	5	0	0	0
SUBTOTALS	15	1,041	0	0	1,056	0	0	0

Subaru-Isuzu  
Lafayette Tippecanoe County, Indiana

TRI # : 47903SBR5Z5500S

Latitude: 40 22 53 N  
Longitude: 86 47 30 W

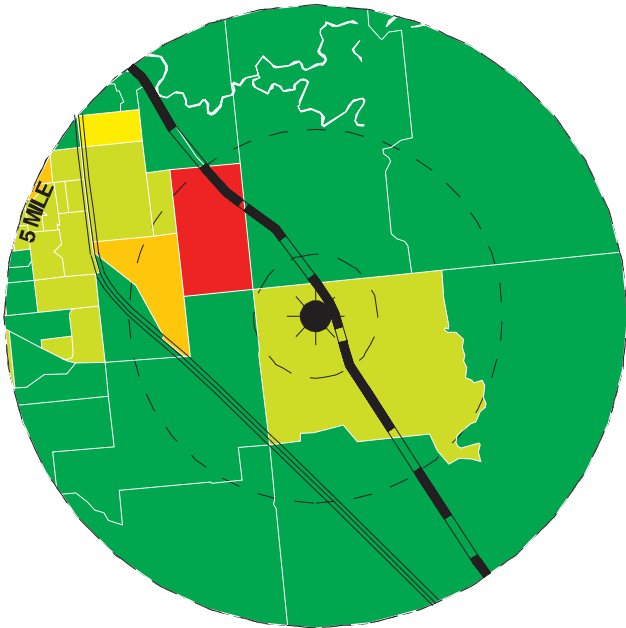
- MAP KEY:
- County Boundaries
  - Inter State Highway
  - US Highway
  - Rail Road
  - One Mile
  - Three Miles
  - Five Miles

- POPULATION DENSITY / SQ. MILE
- Greater than 10000
  - 1000 - 10000
  - 100 - 1000
  - 10-100
  - 1-10

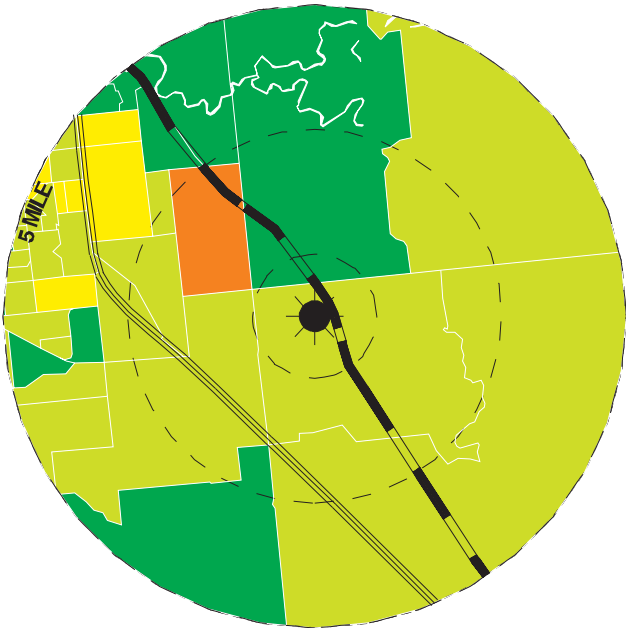
- Minority, poverty, and High School  
Incomplete percentages
- Greater than 50
  - 40 - 50
  - 30 - 40
  - 20 - 30
  - 10 - 20
  - 0 - 10



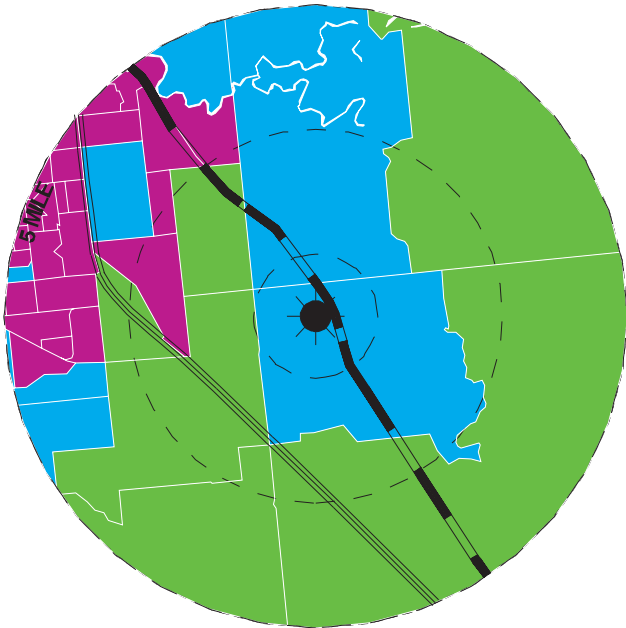
Percentage of Total Population  
Below Poverty Level



Percentage of Population not  
Completing High School



Population Density  
People Per Sq. Mile



Minority Population  
Percent of Total Population



Subaru-Isuzu  
Lafayette Tippecanoe County, Indiana

TRI # : 47903SBR5Z5500S  
Latitude: 40 22 53 N  
Longitude: 86 47 30 W

- MAP KEY:

  - County Boundaries
  - Inter State Highway
  - US Highway
  - Rail Road
  - One Mile
  - Three Miles
  - Five Miles
- POPULATION DENSITY / SQ. MILE

  - Greater than 10000
  - 1000 - 10000
  - 100 - 1000
  - 10-100
  - 1-10
- Minority, poverty, and High School Incomplete percentages

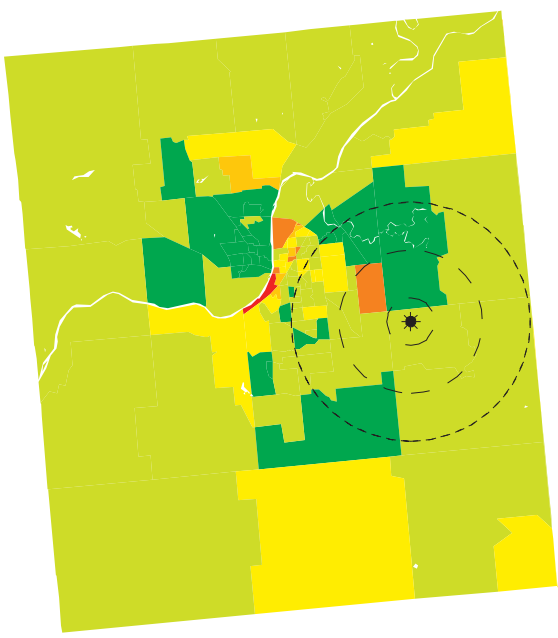
  - Greater than 50
  - 40 - 50
  - 30 - 40
  - 20 - 30
  - 10 - 20
  - 0 - 10



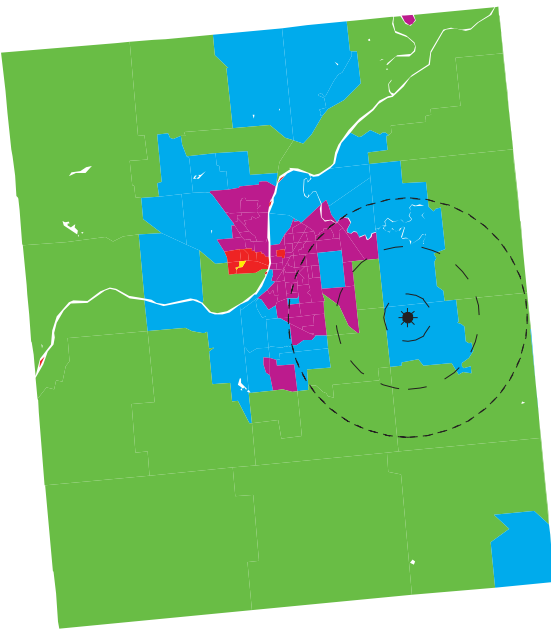
Percentage of Total Population Below Poverty Level



Percentage of Population not Completing High School



Population Density People Per Sq. Mile



Minority Population Percent of Total Population

